

STEM-REGULATED, PLANT DEFENSE PROMOTER AND USES THEREOF IN
TISSUE-SPECIFIC EXPRESSION IN MONOCOTS

ABSTRACT

5 The invention is directed to isolated promoters from
stem-regulated, defense-inducible genes, such as OMT
promoters. The promoters are useful in expression
cassettes and expression vectors for the transformation of
plants. Particularly, the invention provides transgenic
10 plants of rice and sugarcane that have been modified such
that expression of a heterologous coding sequence is
directed by an OMT promoter and is limited to stem tissues
or may be upregulated by the presence of a defense-inducing
agent. The invention also discloses methods for producing
15 the expression vectors and transgenic plants.